

Claims

1. An absorber comprising a laminated absorbent member consisting of laminated two or more super-absorbent sheets, each of which containing super-absorbent polymers to be capable of absorbing aqueous liquid, and a by-pass channel member which has a channel for moving the aqueous liquid fed to a first super-absorbent sheet positioned uppermost in the laminated absorbent member from the first super-absorbent sheet to another super-absorbent sheet, wherein the side to be fed with the aqueous liquid in the laminated absorbent member is assumed to be an upper side.
2. The absorber according to claim 1, wherein at least one layer of the super-absorbent sheets contains 50 wt% or more of the super-absorbent polymer and a thickness thereof is 1.5 mm or less.
3. The absorber according to claim 2, wherein all of the super-absorbent sheets contain 50 wt% or more of the super-absorbent polymer and thicknesses thereof are 1.5 mm or less.
4. The absorber according to any one of claims 1 to 3,

wherein at least a part of the by-pass channel member is composed of a tube member that has a channel inside;

an entry end portion is formed by positioning one end of the tube member above the first super-absorbent sheet, or by positioning the end of the tube member such that an end portion of the first super-absorbent sheet is inserted in the channel; and

an exit end portion is formed by positioning the other end of the tube member either above another super-absorbent sheet or under the laminated absorbent member or both, or by positioning the other end of the tube member such that at least one end of another super-absorbent sheet is inserted in the channel.

5. The absorber according to claim 4, wherein water-transferring sheet is provided in the channel of the tube member.

6. The absorber according to any one of claims 1 to 5,

wherein at least a part of the by-pass channel member is composed of a concavity-and-convexity-containing sheet member that has a concavity-and-convexity-containing surface with concave portions and convex portions on at least one surfaces thereof;

a part of the concavity-and-convexity-containing sheet member is positioned above the first super-absorbent sheet with the concavity-and-convexity-containing surface facing upward; and

another part of the concavity-and-convexity-containing sheet member is positioned either above another super-absorbent sheet or under the laminated absorbent member or both.

7. The absorber according to claim 6, wherein the concavity-and-convexity-containing sheet member has apertures in some of or in all of the convex portions.

8. The absorber according to any one of claims 1 to 7, wherein at least a part of the by-pass channel member is composed of a non-woven sheet member;

a part of the non-woven sheet member is positioned above the first super-absorbent sheet; and

another part of the non-woven sheet member is positioned either above another super-absorbent sheet or under the laminated absorbent member or both.

9. The absorber according to claim 8, wherein the part of the non-woven sheet member is positioned above the first

super-absorbent sheet so as to rise from a surface thereof.

10. The absorber according to claim 8, wherein the part of the non-woven sheet member covers an area in vicinity of a center portion of the first super-absorbent sheet, and functions as a skin-contact sheet.

11. The absorber according to any one of claims 1 to 10, wherein at least a part of the by-pass channel member is composed of hydrophilic fiber or hydrophilic fiber bundle; and

at least the first super-absorbent sheet and another super-absorbent sheet which makes contact therewith are sewn up with the hydrophilic fiber or hydrophilic fiber bundle.

12. The absorber according to claim 11, wherein a permeable fiber web is provided above the first super-absorbent sheet; and at least the permeable fiber web, the first super-absorbent sheet and said another super-absorbent sheet which makes contact therewith are sewn up by a needle-punching process.

13. An absorbent product used to be fed with an aqueous

liquid from an upper side thereof, comprising an aqueous liquid permeable sheet member, the absorber according to any one of claims 1 to 12, and an aqueous liquid impermeable sheet member, from the top in this order.

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